















QM-FM Condenser gluing procedure

Doc.ld. AMSTR-NLR-PR-038 **48** of 87

draft 06

issue Date December 2008

Condenser gluing procedure sheets for FM condensers

9	z		1	6.	91		,		رب	 iэ			Step	Ctar	- F	
bottom plate/top plate/strain relief bottom/strain relief top plate	Condition	Record grit material used 180-220 dry grit		Record sandblast equipment used	or start babys	Take out and store in a Kraft naper	The second of th	Put all the plates in a container for the documents	bottom plate/top plate/strain relief bottom/strain wit file	Record degrease equipment used		Record model (FM) for which the gluing preparations are prepared	Acuon		Fill in by hand.	Condenser gluing procedure sheet
	size/material	Manufacturer/grit	type/serial number	Manufacturer,								Model	Monitoring			
		180/220-AI2O3	SN: 33 168-6	SHRN9- PO SANDER COLLTD			<u> </u>					PW(SB/SW/PR	Value	engineer: E bydy		company: NIC
	3	780	MODEL: T	NOER CK	014		0/				Frt 2	SP	Result	À.		<u> </u>
DECEMBER NOTE			SN: 33 168-6 NODEL: Th- REF POWER 30200	ירנט				DECETIBER NOTE	PERFORMED ON:				Comment	location: 1210	care.	date: & TANONEY 1009

















Thermal Control AMS Tracker

QM-FM Condenser gluing procedure Subsystem

49 of 87

Occ.ld.	AMSTR-NLR-PR-038
Issue	draft 06
Date	December 2008

		17.	16.	. J		<u>-</u>	55	12.	=	10.			9.	Step		
	(85-90.5 °C)	Vapour degreasing the TUBES with Trichloroethylene at 185-195°F	SIGNATURE WAS TO STORE WITH DWASTION FOILING MINE	Verify the manifold tokes are closed with Swarelet connectors	CLIDEACE TREATMENT INCOME! 710 TYPES	Verify all gluing can be performed within 8 hours after following surface	Verify glue/adhesive expiry date	SURFACE TREATMENT AND GEUING (should be done within 8 hours!!)	Store in a clean and dry place for further processing	Remove all sanding residue by blowing dry oil-free air	 (grooved side) bottom strain relief plate (gluing side) top strain relief plate 	 (grooved side) bottom plate 	Sandblast with 45 psi:	Action	Fill in by hand.	Condenser gluing procedure sheet
		-		Necord Start time			Record expiry date						Pressure	Monitoring		
						O divoc	> date of application						45 psi	Value	engineer:	company:
					710		81JMUNG		وہ7	OK		- (45 051	Result		
) 100 mm	SUBSECTION TRANSPORTOR TOLARS	OT 277	FOLLOWING SPITE PROCESS	PROCEUS PERFORMED ON AVOC		AND AND AT	BY JHEAR TEST DIO							Comment	location:	date:
	747		E	ď		ر	OFE				_			حـ		
,				ROPE												

J HOUR















QM-FM Condenser gluing procedure

Doc.ld.

50 of 87

AMSTR-NLR-PR-038

ssue Date December 2008 draft 06

22	21.	20.									<u> </u> 9	18.	Step		
Dry in oven at not over 93 °C	Spray rinse with DI water at RT	Put the tubes in a second bath with DI water and rinse thoroughly with water not over 65 °C	7. Etching rate: 0.24 ~ 0.50 mils/surface/hr	6. CI: 300 ppm max	5. Cr+3:1.9%/wmax	4. Cu: 150 mg/1 min	3. Al: 1.5 g/l min	2. Na2Cr2O7 : 59 ~ 90 g/l	1. H2SO4 : 276 ~ 313 g/l	sulfuric acid dichromate (the same that will be used for preparing aluminium):	Immerse the tubes in the bath for 5 min at 140 to 150 F (60 to 65 C) in	Prepare a bath with solution as described in step 35. The bath should be deep enough to immerse the tubes in the bottom plate AND the strain relief tubes	Action	Fill in by hand.	Condenser gluing procedure sheet
	Record temperature and	Record temperature and time								temperature	Record		Monitoring		
		50°C				acid.	weight\	acid, and	acid, weight	Record weight hydrochloric	145 °F (62.5°C)		Value	engineer:	company:
													Result		
													Comment	location:	date:





QM-FM Condenser gluing procedure

Doc.ld. Page AMSTR-NLR-PR-038

51 of 87

December 2008

3	Issue	0
Doomher 2008	draft 06	•

29.	28.	27.	26.	25.	24.	23.	Step		
Immerse plates for 12-15 minutes at 151-160 F (66-71 C) in the following acid solution: 1. H2SO4: 276 ~ 313 g/l 2. Na2Cr2O7: 59 ~ 90 g/l 3. Al: 1.5 g/l min 4. Cu: 150 mg/l min 5. Cr+3: 1.9%/wmax	Spray rinse with DI water at RT	Put the plate in a bath with DI water and hot rinse thoroughly with water at 110-130°F (43-54) °C	Perform Hot AlKaline with Turco-4215S at 135-145°F (57-63 °C)	Vapour degreasing the plates with Trichloroethylene at 185-195°F (85-90.5 °C)	SURFACE TREATMENT BOTTOM PLATE ALUMINIUM AND SUPPORT TOOL (pressure tubes, positioning pins, pressure plate, bonding tool nocket)	Put tubes in a Kraft paper, in a clean dry place. Handle all parts as little as possible and only with clean, lint free cotton or nylon fabric gloves	Action	Fill in by hand.	Condenser gluing procedure sheet
acid solution. weight sulfuric acid and sodium dichromate/ Record temperature/recor time	temperature and time	Record temperature and time					Monitoring		
155.3 °F (68.5 d °C)/13.5 min							Value	engineer:	company:
							Result		
				D FOURS	WET LEADY BT 7.30. a.m.	TINISE THE TOTAL	Comment 7.20 0 00		date:



.









Thermal Control **AMS Tracker** Subsystem

Page

Date	Issue	Doc.ld.
December 2008	draft 06	AMSTR-NLR-PR-038

52 of 87

QM-FM Condenser gluing procedure	Jungyarciii













Thermal Control Subsystem **AMS Tracker**

Doc.ld.	Page
AMSTR-NLR-PR-038	53 of 87

Issue	Doc.ld.
	AMSTR

ক	ı. AN
draft 06	MSTR-NLR-PR-038

QM-FM Condenser gluing procedure	
Date	
December 2008	

. 38		Step		**
Put adhesive tape 3M 5490 on the border line, on bottom side and in the central reducing mass holes of bottom aluminium plates. The tape will be awarded to remove the exceeding glue.		Action	Fill in by hand.	Condenser gluing procedure sheet
adhesive tape		Monitoring		
		Value	engineer:	company:
88 88 89	3/1 27-3000			
TARE PUTSO SUNT - COPIN TARE BUT NOT ON CRATICAL DEPER 2555 - 2 - 9011	3000	Comment		date:

USES













QM-FM Condenser gluing procedure

Page

54 of 87

Doc.ld. AMSTR-NLR-PR-038

Date	issue
December 2008	מימור סס

1	40.	39.	Step		
Read and follow the instructions of the manufacturer for the adhesive MASTERBOND EP21TDC-2LO, especially wrt mix ratio and working life (90min). To be used only the amount of glue foreseen for 1 QM/FM	Glue tubes to bottom plate	Put release agent on aluminium positioning pins and position it Shorter PINS Shorter PINS	Action	Fill in by hand.	Condenser gluing procedure sheet
Record Mixing ratio applied		agent used	Monitoring		
			Value	engineer:	company:
9.5			Result		
TIXING THE : 12:00			Comment	location:	date:
0 CL	!		~		















QM-FM Condenser gluing procedure

Doc.ld.

55 of 87

AMSTR-NLR-PR-038

Issue Date December 2008 draft 06

53	1,2		Step		
Apply the glue on the bottom of the pockets and in the edges (of bottom plate) carefully by a gun with a tip dispenser of approximately 0.9mm.	To avoid bubble air in the glue, perform the following for each time a new amount of glue is mixed: • Mix the A and B compound • Pull a vacuum, repeatedly, i.e. pull-relax, pull-relax, pull-relax (at least 15 minutes)	bottom condenser plate.	Action	Fill in by hand.	Condenser gluing procedure sheet
Record time of application of glue			Monitoring		
			Value	engineer:	company.
	9		Result		
IL: 210	FINISH THE ROSE WACCUR AT 13:52 a.m. JNO WE FINISH VACCUR AT: 14:20		Comment	location:	date:















QM-FM Condenser gluing procedure

Doc.ld.

Page

AMSTR-NLR-PR-038 **56** of 87

draft 06

	Condenser giuing procedure sheet		company:		date:	
	Fill in by hand.		engineer:		location:	
Step	Action	Monitoring	Value	Result	Comment	٦٦
					OK/	
	Cut with a slope the tip dispenser to enlarge the gluing area and fill the bottom of the pockets completely.					
44.	Put also a small layer of glue in the grooves, always with the cut tip dispenser. However put no glue on the grooves for bonding top plate			0)(
	"teeth": these parts are for pushing the tubes in right position and should			<u></u>		
	have no glue.					

NIR)















Thermal Control Subsystem **AMS Tracker**

Page

Doc.id. AMSTR-NLR-PR-038 **57** of 87

December 2008 draft 06

Issue

QM-FM Condenser gluing procedure	Subsystem
D	lss

Condenser gluing procedure sheet		company:		date:
Fill in by hand.		engineer:		location:
Step Action	Monitoring	Value	Regult	Comment
				CHAMBLE
45. Put the tubes and press them in place using the tubes frame (they will be			5	
used very temporarily). Use rulers/knives and press them by hand. (see			<i>(</i>	
appendix A for drawings and sketches)				

















QM-FM Condenser gluing procedure Thermal Control Subsystem

AMS Tracker

Issue	Doc.ld.	Page
draft 06	AMSTR-NLR-PR-038	58 of 87

Date

December 2008

46.	Step		
Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. 53.4 = 0.1 637.1 = 42.6 = 0.1 53.4 = 0.2	Action	Fill in by hand.	Condenser gluing procedure sheet
	Monitoring		
	Value	engineer:	company:
	Result		
APPLY THE COMB AT THE PROCESU; AFTER	Comment	location:	date:
	Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. 3.	Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it.	Action Action Apply release agent on the bonding pocket tool to let it be removed after the gluing and position it. St. 4 = 0.1 St.



















QM-FM Condenser gluing procedure

Date

December 2008

draft 06

Doc.ld.	Page
AMSTR-NLR-PR-03	
R-PR-03	59 of 8

50.	49.	48	Step		<u>*</u>
Put a release film over the surface of the bottom plate and position the bonding plate over the bottom plate, using the position pins	Remove, where possible, the exceeding glue	Completely fill the bottom plate with cut tip dispenser and a spatula to flatten the surface. Try to keep the layer thickness <0.5 mm	Action	Fill in by hand.	Condenser gluing procedure sheet
			Monitoring		
			Value	engineer:	company:
مار	2	OK	Result		
			Comment	location:	date:
	.,		~		













QM-FM Condenser gluing procedure

60 of 87

Doc.ld.	AMSTR-NLR-PR-038
Issue	draft 06
Date	December 2008

5	 Step		- - •
Insert the bottom strain relief (covered with the release film) over the bonding top plate, using 2 positioning screws, to support the tubes during	p Action	Fill in by hand.	Condenser gluing procedure sheet
the	Monitoring		
	Value	engineer:	company:
	Result		
NO RELEASE FILT	Comment	location:	date:
	 2		



















QM-FM Condenser gluing procedure

;	Page	
•		

Doc.id. AMSTR-NLR-PR-038 **61** of 87

Issue Date

December 2008 draft 06

	51.7			Step		
	Position the pressure plate over the top bonding plate (no nutplates are present in this step). NOTE: THE PRESSURE PLATE HAS BEEN MODIFIED TO ALLOW PINS GO THROUGH.			Action	Fill in by hand.	Condenser gluing procedure sheet
			9	Monitorino		
			A arac	Value	enomeer.	company:
			Nesut	0		
	3 PRESSURE PLATES	BACKSIDE OF STRAIN	ALSO A FIX TURE TO	location:	Late.	date.
				_		















QM-FM Condenser gluing procedure

Doc.ld.

AMSTR-NLR-PR-038 **62** of 87

Issue Date December 2008 draft 06

30.	\$6	54.	53.		Step	*	•
Koropon Primer Base 515-700 (Don't add MEK, just use small amount of Super Koropon in a little cup and then refill when finished). Install the 88 nutplates using the installation tool DCBT8600-06	procedure of the Bottom plate (from step to 28 to 36). Paint the contact surface between nutrilate and for plate 1.15.	TOP PLATE Perform the surface treatment of ONLY TOP 11. 5.1.	Put all the assembly on a vacuum bag and cure for 1 day		Action	Fill in by hand.	Condenser gluing procedure sheet
				racing mg	Monitoring		
				v aine	Volue	enoineer:	company:
				Result	3		
7: 40 e.m.	FISH TIME: 7:00 QUIM		FISHEN THE 15:10.	PUT ONLY & PINS ON STRAIN RELIEF SIDE	iocanon.	Topotion.	date.

Ç.

















QM-FM Condenser gluing procedure **Thermal Control AMS Tracker** Subsystem

Issue	Doc.ld.	Page
draft 06	AMSTR-NLR-PR-038	63 of 87

December 2008

		į.	Step		
To the border line in the central reducing mass holes On the TS and heaters location Over the nutplates	Super Koropon O20MAX	PANEL GRIP	Action	Fill in by hand.	Condenser gluing procedure sheet
			Monitoring		
			Value	engineer:	company:
07			Result		
THE ENTITUDE OF THE		MO CHANTE ON INSTALLATION	Comment	location:	date:















Page

LR-PR-038 **64** of 87

December 2008 draft 06

SM-FM Condenser gilling procedure	ousystem	Thermal Control
Date	Issue	Doc.id.
December 2	dra	Doc.id. AMSTR-NLR-PR

	5	<u>u </u>			Step		*
(Inner side, the one that will be glued) as in the following picture (only for square size reference).	The tape will be taken out to remove the exceeding glue.		Tape:3M-5490		Action	Fill in by hand.	Condenser gluing procedure sheet
				FIGHTOTHE	Monitorina		
				Value	Volum	engineer:	company:
			~	Kesult	3		
				LOST OF THE SOL	rocanon.	location:	date:
		The tape will be taken out to remove the exceeding glue. 58. Apply small square size pieces of the 3M 850 on holes of the top plate (Inner side, the one that will be glued) as in the following picture (only for square size reference).		The tape will be taken out to remove the exceeding glue. Apply small square size pieces of the 3M 850 on holes of the top plate (Inner side, the one that will be glued) as in the following picture (only for square size reference).	The tape will be taken out to remove the exceeding glue. Apply small square size pieces of the 3M 850 on holes of the top plate (Inner side, the one that will be glued) as in the following picture (only for square size reference).	Action Action Monitoring Value Result The tape will be taken out to remove the exceeding glue. Apply small square size pieces of the 3M 850 on holes of the top plate (Inner side, the one that will be glued) as in the following picture (only for square size reference).	Action Action Action Monitoring Value Result The tape will be taken out to remove the exceeding glue. Apply small square size pieces of the 3M 850 on holes of the top plate (Inner side, the one that will be glued) as in the following picture (only for square size reference).

















QM-FM Condenser gluing procedure **Thermal Control AMS Tracker** Subsystem

Issue	Doc.ld.	Page
draft 06	AMSTR-NLR-PR-038	65 of 87

Date

December 2008

6).	59.			Step	İ	
yes. enlarge the little air bubble areas using a drill and re-fill with glue.	 the short pins on the strain relief side the bottom strain relief, the bonding top plate the release film 	RE-FILLING CHECK, INSTALL FOIL HEATERS ON TOP plate (STRAIN RELIEF SIDE) and GLUING TOP PLATE TO BOTTOM PLATE-		Action	Fill in by hand.	Condenser gluing procedure sheet
				Monitoring	-	
				Value	engineer:	company:
0 K			R	Result		
(LEUS NOIDS THAN FAY)	OK; DRILED ONE HOWE TO PUT THE 3721 POSITIONING	ON STR JANUARY 2009	Campa	-	location:	date:



















QM-FM Condenser gluing procedure

Doc.ld. Page

Issue

Date

December 2008

66 of 87

AMSTR-NLR-PR-038 draft 06

									Ţ	1
V/					<u> </u>		-	Step		
	(yellow in the picture)	 #2 condenser foil heater -HK 27565 Kapton Thermofoil heater 	(red in the picture)	 #2 liquid line foil heaters -FHK203 Kapton Thermofoil heater 	Install the foil heater on top plate:			Action	Fill in by hand	Condenser gluing procedure sheet
							SILLOURINGIAL	Monitoring		
							value	VI-1	engineer	company:
				אטע		وار	Kesuit	<u>ד</u>		
							Comment) Coarloil,	location.	date:
							ļ	- 1		



















QM-FM Condenser gluing procedure

Doc.ld. AMSTR-NLR-PR-038 **67** of 87

Issue Date December 2008 draft 06

		*		7,0		
64.	63.		62.	Step		
Protect the HK 27565 heater and cable with release film according to the following schematic, using release film and tape to fix.	Install heaters according to AMSTR_NLR_PR-043 procedure	heaters have to be installed.	Remove the tape on the top plate on the strain relief side, where the	Action	Fill in by hand.	Condenser gluing procedure sheet
				Monitoring		
				Value	engineer:	company:
010	2			Result		
			MA NECEDOMY	Comment	location:	date:
				~		

















QM-FM Condenser gluing procedure

Page

Doc.ld.

AMSTR-NLR-PR-038 **68** of 87

December 2008 draft 06

Issue

Date

!	<u> </u>			
65.		Step		
Protect the FHK203 heater and cable with release film according to the following schematic insing release film and tage to fire	Cabling: wrap release film around Release film fix with tape	Action	Fill in by hand.	Condenser gluing procedure sheet
the				
		Monitoring		
		Value	engineer:	company:
012	Q.	Result		
	FIX CABLES	Comment	location:	date:
				- [















QM-FM Condenser gluing procedure

Doc.ld. AMSTR-NLR-PR-038 Page

69 of 87

issue Date December 2008 draft 06

	70.			69.		68.		67.		66.				 			510		\$.	
	Apply the bonding tool pocket	bag and to prevent excessive bending of the tubes.	plate, with positioning screws, to support the tubes during the vacuum	Insert the bottom strain relief (covered with the release film) on the top	positioning pins.	Position top plate on bottom plate within accuracy by using D=5mm		Apply the adhesive MASTERBOND EP21TDC-2LO according to		Use tape to fix the heater cable to the plate, to avoid stressing the foil	To what the feet with the feet	release film around	Cabling: wrap		fix withtape	Release film area:	CACHOIL	Action	Fill in by hand.	Condenser gluing procedure sheet
							ratio applied	Record Mixing									Monitoring			
									N N					 			Value	engineer:		company:
			7	2		210	*	ر ر	- (2					<u></u>	<u>,</u>	Result			
PLATE PRESSUR			NO RECURRE FILM		TO SEC COMPACT NOT NO	H. Vice O ST. A ST	STAUTING SIME: MILYS	MIXING TIPE IN TO						-			Comment	location:	uat.	date.

















QM-FM Condenser gluing procedure

Page

70 of 87

Doc.ld.

AMSTR-NLR-PR-038

Issue Date December 2008 draft 06

73.	72.		71.		Step		
SURFACE TREATMENT OF BOTTOM AND TOP STRAIN RELIEVES AND NUTPLATE INSTALL ATION Open the vacuum bag, remove the pressure plate and the tape from the top plate surface	Put all the assembly on a vacuum bag and cure for 1 day	PLATE HAS BEEN MODIFIED TO ALLOW PINS GO THROUGH.	Position the pressure plate over the top plate NOTE: THE PRESSURE	5, 4 so. 1 33, 4 do. 2 33, 4 do. 2	Action	Fill in by hand.	Condenser gluing procedure sheet
					Monitoring		
					Value	engineer:	company:
	0k	G	3		Result		
30 N.		I PRESSURE PLATES			Comment	location:	date:
					~		



















QM-FM Condenser gluing procedure **Thermal Control AMS Tracker** Subsystem

Issue	Doc.ld.	Page
draft 06	AMSTR-NLR-PR-038	71 of 87

Date

December 2008

				 									_	
	77.			 				76.	75.	,	74	Step		
	Remove the nut on the nutplates that will be used for the positioning screws, using the removal tool	.020MAX	Super Koropon		THK.	TOP -G1	finished). Install the 10 nutplates using the installation tool DCBT8600-	with Super Koropon Primer Base 515-700 (Don't add MEK, just use	following the procedure of the Bottom plate (from step to 28 to 36)		Remove the PINS only strain relieves side	Action	Fill in by hand.	Condenser gluing procedure sheet
											0.000	Monitorino		
												Value	engineer:	company:
	OK							70	20	OK.	TVCOUL	Desmit		
S	00 00 00 0*								JE loso CITE D AND READY AT DATUM	HEATERS SILL BE NOT DEMOND (AFTER		Comment	on:	date: LOTH JANUARY OF
									(Sur	[#				

POSITION TO PINS



















QM-FM Condenser gluing procedure

Page

Doc.ld. AMSTR-NLR-PR-038 **72** of 87

draft 06

December 2008

Date

issue

F	·· ₁	4.			
78.			Step		
Clean inlet tubes on the pocket area	location	Positioning screw	Action	Fill in by hand.	Condenser gluing procedure sheet
		Ö	Monitoring		
		T CHICACO	Value	engineer:	company:
OK_	<u>a</u>	Tresur	Docult.		
		Comment	Commont	location:	date:

















Thermal Control AMS Tracker

QM-FM Condenser gluing procedure Subsystem

Page	

73 of 87

Issue

Doc.id. AMSTR-NLR-PR-038 draft 06

	Date	!
	Decen	
1000	December 2008	41.00

80.	79.	Step	,	
Apply small square size pieces of the 3M 850 on holes of the bottom strain relief (Inner side, the one that will be glued): don't put the tape on the positioning screw holes.	Apply adhesive tape 3M 5490 on the border line and on the surfaces of the bottom and top strain relieves (on the area where heaters will be installed)	Action	Hill in by hand.	Condenser gluing procedure sheet
		Monitoring		
		Value	engineer:	company:
210	0 r	Result		
6	USED THE 357 850 ON THE	Comment	location:	date:

















QM-FM Condenser gluing procedure

Page

Doc.id. AMSTR-NLR-PR-038 **74** of 87

draft 06

Date	Issue
December 2008	draft 06

۷

j	 ji.		~r
<u>8</u>	Step		
Apply small square size pieces of the 3M 850 on holes of the top strain relief (Inner side, the one that will be glued): don't put the tape on the positioning screw holes.	Action	Fill in by hand.	Condenser gluing procedure sheet
	Monitoring		
	Value	engineer:	company;
200	Result		
	Comment	location:	date:













Thermal Control Subsystem **AMS Tracker**

QM-FM Condenser gluing procedure

Page	

Doc.ld.	990
AMS	

5	<u>.i.</u>
	AMST

AMSTR-NLR-PR-038	75 of 87
PR-038	of 87

Date	Issue
December 2008	draft 06

84.							83.		⊘ !·	Step		
Position and assemble the bottom strain relief on top plate, avoiding tubes touch the glue. Put the 2 positioning screws from the bottom side of the condenser to let the bottom strain relief be in the right position.	Таре	Tape film	tilm	Release	Suam rener	Cturing and I and	Lover the strain reflet as in the following picture to protect the foil heaters already installed.	the bottom strain relief.	manufacturers instructions, in the grooves and all the internal surface of	Apply the adhesive MASTERBOND ED21TDC 21 O coording to	rii ii oy ilalid.	Connenser Erning procedure spect
,								The state of the s	ratio applied	Monitoring		
				•••					2:3	Value	engineer:	company:
0 8									رن د: ۲	Result		
PINS INSTRUED		OF THE BOTH OF A.J.	1 STRAY TO SO.	TUBE OF WICHIN PECLES	AL TAPE ONLY ON THE	RECUEASE FILM	reased profected with	POLL & PELDX IN SPECCUT	PUXING TIME: 10:30	Comment	location:	date:



















QM-FM Condenser gluing procedure

Page

Doc.ld. AMSTR-NLR-PR-038 **76** of 87

draft 06

	85.	Step)	
	Press tubes into bottom strain relief and refill a new glue laver	Action		Condenser gluing procedure sheet
		Monitoring		
		Value	engineer:	company:
(071	Result		
		Comment	location:	date:
		V		



Step

















Thermal Control **AMS Tracker** Subsystem

Page

Doc.ld.

AMSTR-NLR-PR-038 **77** of 87

draft 06

QM-FM Condenser gluing procedure Issue Date December 2008

Apply a layer of 0.5 mm glue on the top strain relief and put the top strain relief to bottom strain relief.		Action	Fill in by hand.	Condenser gluing procedure sheet
		Monitoring	-	
		Value	engineer:	company:
0)/	O/Z	Result		
		Comment	location:	date:

86.















0	1000000	z

QM-FM Condenser gluing procedure

Page

Doc.Id.

AMSTR-NLR-PR-038 **78** of 87

draft 06

	87.	Step			
	Apply 4 positioning screws from the nutplate side on the top strain By Screw By Screw By Screw Clief	Action	Fill in by hand.	Condenser gluing procedure sheet	
		Monitoring			
		Value	engineer:	company:	
~	A NAVO VALA	Result			
	3 POSITION SCIEW	Comment	location:	date:	
+		2			

















Subsyst	AMS Tracker
---------	-------------

QM-FM Condenser gluing procedure

Page

Doc.Id. AMSTR-NLR-PR-038 **79** of 87

draft 06

89.	 Step	?	
Remove the 2 positioning screws from the bottom side of the condenser and apply to the nutplate side of top strain relief			Condenser gluing procedure sheet
	Monitoring		
	Value	engineer:	company:
	Result		
NO NE CERROY	Comment	location:	date:
	Remove the 2 positioning screws from the bottom side of the condenser and apply to the nutplate side of top strain relief	Action Action Monitoring Value Result Result Remove the 2 positioning screws from the bottom side of the condenser and apply to the nutplate side of top strain relief	Action Action Monitoring Value Result Remove the 2 positioning screws from the bottom side of the condenser Remove the nutplate side of top strain relief



















QM-FM Condenser gluing procedure

Doc.ld.

AMSTR-NLR-PR-038 **80** of 87

draft 06

 	91.		<u>1</u>		Step		
	Put all the assembly on a vacuum bag for the time period mentioned by the adhesive manufacturer (2 OR 3 DAYS)	Strain relief plate Heavy bar			ep Action	Fill in by hand.	Condenser gluing procedure sheet
				c	Monitoring		
						engineer:	company:
				A STATE OF THE STA	Result		VI
	0		FINDE THE: MIAG	D)C	Comment	location:	date:
				~	_		















QM-FM Condenser gluing procedure

Doc.ld. Page

AMSTR-NLR-PR-038 **81** of 87

December 2008 draft 06

issue

Date

<u>-</u>					 \$74
		3	Step		
	Open the vacuum bag and check if the no voids are along the edges of the condenser. If so, refill using a syringe and needle to push the glue inside.	EDGE REFILLING CHECK	Action	Fill in by hand.	Condenser gluing procedure sheet
			Monitoring		
			Value Result	engineer: E. Doub	company: №1DC
	FLAT (LIKE FH 1)	ANTR TANUARY 2009	Comment	location: AID	date:
		-	ح		İ

















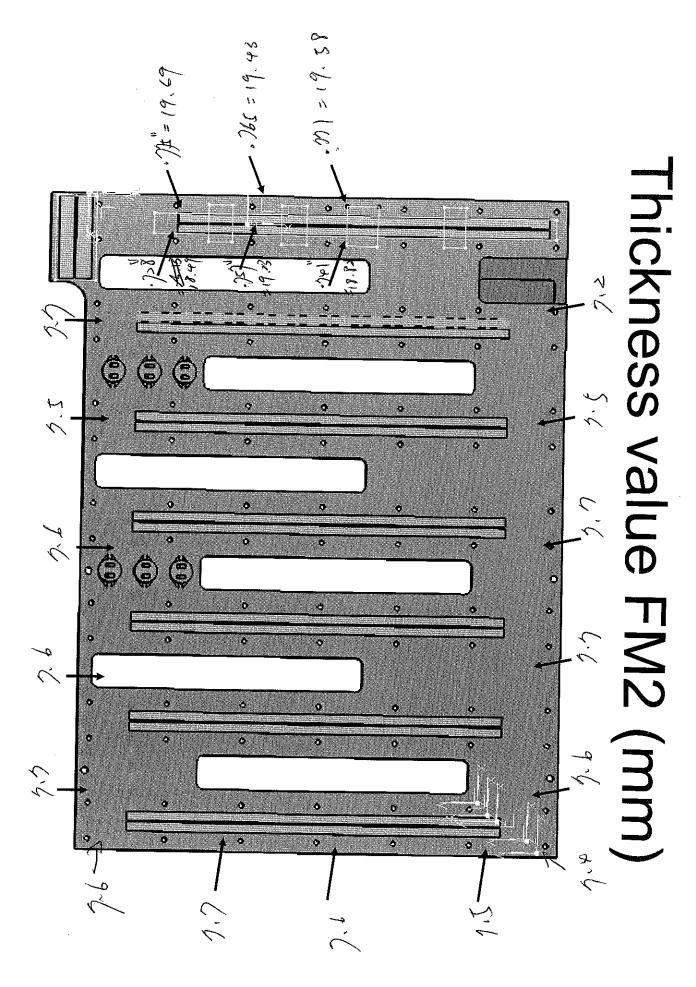
QM-FM Condenser gluing procedure

Doc.ld. Page

82 of 87

December 2008	Date
draft 06	ssue
AMSTR-NLR-PR-038	oc.ld.

				End	80.
10	4114		Record the weight measured	Put the condenser on a balance and record the weight	
CLEMED WITH IRA			İ	WIEGHT RECORD	98.
TAPE ON BOUGHT TOO DIFFICULT FO				Kemove the tape on the condenser plates	
•	e /			Apply the remaining foil heaters on top plate and top strain relief according to the procedure AMSTR-NLR-PR-043	
				STRAIN RELIEF	
	0K			top plate, to avoid going through the nutplate thread)	
	68			surface. Remove exceeding glue as better as it is possible.	2
	n ok	thickness on	thickness on sides	After curing time, remove the tapes and the sing from the gluing	
			Charles	DRILLING THE HOLES	0.7
Comment	Result	Value	Monitoring	Action	Step
location:		engineer:		Fill in by hand.	
date:		company:		Condenser gluing procedure sheet	



.